

ABSTRACT OF THE DISCLOSURE

In the method of determining hormonal effects of substances, a test substance is contacted with Ewing sarcoma protein (EWS) or a derivative of it and with a nuclear receptor (NR) or a derivative of it; and the effect of the test substance on binding of EWS with the nuclear receptor or its derivative or on ligand-induced activity of the nuclear receptor is determined, preferably in a cellular system. A method for determining interference in the co-modulator mechanism between androgen receptor and EWS, which includes measurement of androgen receptor and EWS concentrations, is described. A method for identification and characterization of substances that influence the activity of a nuclear receptor, especially androgen receptor, using EWS or a derivative of it is disclosed.